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2014 Zero Emission Vehicle Credits

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To provide greater transparency to interested stakeholders, production data in model year 2014 and credit balances are now publicly available as per section 1962.1(I), which NJ adopted by reference.

Manufacturer Volume Status

The ZEV regulation requires large volume and intermediate volume manufacturers to bring to and operate in New Jersey a certain percent of ZEVs (such as battery electric and fuel cell vehicles), clean plug-in hybrids, clean hybrids and clean gasoline vehicles with near-zero tail pipe emissions. The table below lists the 2014 Vehicle Manufacturers subject to the ZEV Requirements.

2014 Manufacturer Volume Status	
Large Volume	Intermediate Volume
Chrysler Group	BMW
Ford	Hyundai
GM	Kia
Honda	Land Rover
Nissan	Mazda
Toyota	Mercedes Benz
	Subaru
	Volkswagen

Manufacturer Requirement

A vehicle manufacturer's ZEV requirement is based on a percentage of all passenger cars and light-duty trucks from 0 to 8500 lbs, brought to and operated in New Jersey. The table below is the 2014 New Jersey vehicle production of Large Volume and Intermediate Volume

Manufacturers.

Large and Intermediate Volume Manufacturer 2014 Vehicles Delivered for Sale in New Jersey	
Manufacturer	Passenger Cars and LDT
BMW	42,110
Fiat Chrysler Group	61,060
Ford	71,720
FUJI Heavy Industries/Subaru	17,242
General Motors	67,773
Honda	82,487
Hyundai	26,046
Jaguar Land Rover	5,117
Kia	17,491
Mazda	14,004
Mercedes Benz	29,108
Nissan	55,589
Toyota	76,640
Volkswagen	30,499
TOTAL	596,499

LDT = light duty truck 0 -8500 lbs

Manufacturer Credit Balances

In complying with the ZEV regulation, manufacturers deliver vehicles in NJ which generate varying credits based on vehicle type. There are also other parties generating credits that do not have ZEV requirements. The table below lists the credit balances as end of the 2014 model year. The credits are in units of grams per mile Non-Methane Organic Gases (g/mi NMOG).

New Jersey Zero Emission Vehicle Credit Balances							
Manufacturer	Units	ZEVs (excluding NEVs)	I.5x/IIx	NEV+	TZEV	AT PZEV	PZEV
BMW	g/mi NMOG credits	151.820	57.796	0.000	0.000	0.000	0.000
	ZEV credits	4337.71	1651.31	0.00	0.00	0.00	0.00
BYD Motors Inc.	g/mi NMOG credits	0.000	0.000	0.000	0.000	0.000	0.000
	ZEV credits	0.00	0.00	0.00	0.00	0.00	0.00
Daimler AG	g/mi NMOG credits	131.055	0.000	142.044	0.000	0.635	133.074
	ZEV credits	3,744.43	0.00	4,058.40	0.00	18.15	3,802.11
Fiat Chrysler	g/mi NMOG credits	230.047	0.000	0.001	0.000	140.063	0.000

	ZEV credits	6,572.77	0.00	5.43	0.00	4,001.80	0.00
Ford	g/mi NMOG credits	200.863	0.000	353.290	43.816	217.725	251.200
	ZEV credits	5,738.94	0.00	10,094.00	1,251.88	6,220.71	7,177.14
Fuji Heavy Industries/Subaru	g/mi NMOG credits	0.000	0.000	0.000	0.000	6.083	271.165
	ZEV credits	0.00	0.00	0.00	0.00	173.80	7,747.57
GM	g/mi NMOG credits	306.920	0.000	208.226	98.505	236.080	198.555
	ZEV credits	8,769.14	0.00	5,949.31	2,814.42	6,745.15	5,673.00
Honda	g/mi NMOG credits	324.461	0.000	255.285	110.543	93.317	420.420
	ZEV credits	9,270.32	0.00	7,293.86	3,158.37	2,666.19	12,012.00
Hyundai	g/mi NMOG credits	25.760	0.000	0.000	0.000	24.410	219.329
	ZEV credits	736.00	0.00	0.00	0.00	697.41	6,266.54
Jaguar Land Rover	g/mi NMOG credits	*13.090	0.000	0.000	0.000	0.000	1.103
	ZEV credits	374.00	0.00	0.00	0.00	0.00	31.51
KIA	g/mi NMOG credits	27.122	0.000	0.000	0.000	14.630	98.277
	ZEV credits	774.92	0.00	0.00	0.00	417.99	2,807.91
Mazda	g/mi NMOG credits	0.000	0.000	0.000	0.000	0.000	30.811
	ZEV credits	0.00	0.00	0.00	0.00	0.00	880.31
Mitsubishi	g/mi NMOG credits	0.672	0.000	0.000	0.000	0.000	116.566
	ZEV credits	19.20	0.00	0.00	0.00	0.00	3,330.46
Nissan	g/mi NMOG credits	601.080	0.000	0.000	10.042	0.000	246.985
	ZEV credits	17,173.71	0.00	0.00	286.91	0.00	7,056.71
Polaris	g/mi NMOG credits	0.000	0.000	0.000	0.000	0.000	0.000
	ZEV credits	0.00	0.00	0.00	0.00	0.00	0.00
Tesla	g/mi NMOG credits	0.000	0.000	0.000	0.000	0.000	0.000
	ZEV credits	0.00	0.00	0.00	0.00	0.00	0.00
Toyota	g/mi NMOG credits	127.035	0.000	102.042	402.439	1,593.600	218.900
	ZEV credits	3,629.57	0.00	2,915.49	11,498.26	45,531.29	6,254.29
Volkswagen	g/mi NMOG credits	65.276	0.000	0.000	0.000	4.640	27.867
	ZEV credits	1,865.03	0.00	0.00	0.00	132.56	796.20
Volvo	g/mi NMOG credits	0.000	0.000	0.000	0.000	0.000	71.655
	ZEV credits	0.00	0.00	0.00	0.00	0.00	2,047.29
Zipcar	g/mi NMOG credits	0.000	0.000	0.000	0.000	0.000	0.000
	ZEV credits	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS	g/mi NMOG credits	2,205.163	57.796	1,061.077	665.345	2,331.178	2,305.907
	ZEV credits	63,004.65	1,651.31	30,316.49	19,009.84	66,605.05	65,883.04

* This balance does not include an outstanding ZEV obligation of 14.822 g/mi NMOG credits. A manufacturer has two additional model years to fulfill the obligation with credits from ZEVs before they will be out of compliance.

ZEV = Zero Emission Vehicle

NEVs = Neighborhood Electric Vehicle

NMOG = Non-Methane Organic Gases

TZEV = Transitional Zero Emission Vehicle

AT PZEV = Advanced Technology Partial Zero Emission Vehicle

PZEV = Partial Zero Emission Vehicle

Manufacturer Transfers

Manufacturer may transfer credits between manufacturers and third parties. Below are the ZEV credits transferred between October 1, 2014 and September 1st, 2015.

New Jersey ZEV transfers out between October 1, 2014 and September 1st, 2015 (g/mi NMOG)		
Transferor	Type of Vehicle	Number of Credits
Tesla	ZEV	94.395
Nissan	ZEV	21.000
Mitsubishi	ZEV	0.123
Polaris	NEV+	0.252
FCA	NEV+	70.000
Toyota	AT PZEV	245.000

New Jersey ZEV transfers in between October 1, 2014 and September 1st, 2015 (g/mi NMOG)		
Transferor	Type of Vehicle	Number of Credits
Ford	ZEV	77.000
FCA	ZEV	38.395
GM	ZEV	0.123
FCA	NEV+	0.252
Toyota	NEV+	70.000
FCA	AT PZEV	245.000

Frequently Asked Questions

How far into the future do these credit balances cover the manufacturers' ZEV requirement?

Each manufacturer is unique in their strategy of compliance with the ZEV regulation. It is not possible to predict how and when these credit balances will be spent over the coming years due to the complexity and flexibility of the regulation. There are various mechanisms in the ZEV regulation which limit how credits are spent.

How do you calculate a manufacturer's requirement?

For understanding the calculations involved in the ZEV Regulation, please see the ZEV Tutorial link below.

Why are credit balances in units of grams/mile Non-Methane Organic Gases (g/mile NMOG)?

For reporting year 2014 only, the balances are displayed in both units of grams/mile Non-Methane Organic Gases (g/mile NMOG) and ZEV credits to provide a transition to units of ZEV credits. Through reporting year 2014 credits earned have been multiplied by the g/mile NMOG fleet average requirement for the appropriate model year. The g/mi NMOG is used only as index (which decreased over time)—it is the “currency” that credits are stored in and does not represent actual values of g/mi NMOG. The intent of this multiplier was to reward early production of vehicles. For 2015 reporting year onward credits will be expressed in ZEV credits. The purpose of this change is to simplify credit calculations. Current balances are divided by .035 to convert g/mile NMOG credits to ZEV credits.

How many vehicles have been brought to and operated in New Jersey as a result of the ZEV regulation?

These credit balances reflect ZEV regulation compliance from 2009 through model year 2014, including over 3,300 battery electrics, 400 NEVs, 4,800 clean plug-in electric, 72,000 clean hybrids, and 915,000 clean gasoline vehicles for a total of 996,000 vehicles.

More Information

[ZEV Tutorial](#)

Contact Us

For more information please contact the New Jersey DEP Bureau of Mobile Sources at Yuli.Chew@dep.nj.gov (609)-292-8241.